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Term	Documents
SUSPENSION.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	490033
SUSPENSIONS.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	112144
(2 AND SUSPENSION).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	16
(L2 AND "SUSPENSION").USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	16

Database:

US Patents Full-Text Database
 US Pre-Grant Publication Full-Text Database
 JPO Abstracts Database
 EPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

Search:

L3

[Refine Search](#)[Recall Text](#)[Clear](#)**Search History**DATE: Sunday, August 25, 2002 [Printable Copy](#) [Create Case](#)

Set Name **Query**
 side by side

Hit Count **Set Name**
 result set

DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=OR

<u>L3</u>	L2 and "suspension"	16	<u>L3</u>
<u>L2</u>	"flexible" and "culturing" and "fluid" and "aerating"	22	<u>L2</u>
<u>L1</u>	"flexible container" and "plastic" and "culturing"	0	<u>L1</u>

END OF SEARCH HISTORY

WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 10 of 16 returned.****1. Document ID: US 20010031491 A1**

L3: Entry 1 of 16

File: PGPB

Oct 18, 2001

PGPUB-DOCUMENT-NUMBER: 20010031491
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010031491 A1

TITLE: Method and apparatus for aseptic growth of cells and/or microorganisms

PUBLICATION-DATE: October 18, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Curtis, Wayne R.	State College	PA	US	

US-CL-CURRENT: [435/243](#); [435/289.1](#), [435/294.1](#), [435/383](#), [435/420](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
Draw Desc	Image										

2. Document ID: US 6432698 B1

L3: Entry 2 of 16

File: USPT

Aug 13, 2002

US-PAT-NO: 6432698
DOCUMENT-IDENTIFIER: US 6432698 B1

TITLE: Disposable bioreactor for culturing microorganisms and cells

DATE-ISSUED: August 13, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gaugler; Randy	North Brunswick	NJ		
Hatab; Moeen Abu	Knoxville	TN		

US-CL-CURRENT: [435/296.1](#); [435/297.2](#), [435/304.1](#), [435/818](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
Draw Desc	Image										

3. Document ID: US 5846816 A

L3: Entry 3 of 16

File: USPT

Dec 8, 1998

US-PAT-NO: 5846816

DOCUMENT-IDENTIFIER: US 5846816 A

TITLE: Apparatus for biomass production

DATE-ISSUED: December 8, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Forth; Kevin	Parkerville			AU

US-CL-CURRENT: [435/292.1](#); [435/286.7](#), [435/296.1](#), [435/304.1](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMIC
Draw Desc	Image									

4. Document ID: US 5779960 A

L3: Entry 4 of 16

File: USPT

Jul 14, 1998

US-PAT-NO: 5779960

DOCUMENT-IDENTIFIER: US 5779960 A

TITLE: Algal plastics

DATE-ISSUED: July 14, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Berlowitz-Tarrant; Laurence	Harvard	MA		
Tukumo; Toshimasa	Tokyo			JP
Shivkumar; Satya	Worcester	MA		

US-CL-CURRENT: [264/176.1](#); [264/209.1](#), [264/211](#), [264/211.1](#), [264/211.11](#), [524/47](#), [525/54.3](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMIC
Draw Desc	Image									

5. Document ID: US 5081035 A

L3: Entry 5 of 16

File: USPT

Jan 14, 1992

US-PAT-NO: 5081035

DOCUMENT-IDENTIFIER: US 5081035 A

TITLE: Bioreactor system

DATE-ISSUED: January 14, 1992

INVENTOR-INFORMATION:

└ 8. Document ID: US 4902302 A

L3: Entry 8 of 16

File: USPT

Feb 20, 1990

US-PAT-NO: 4902302

DOCUMENT-IDENTIFIER: US 4902302 A

TITLE: Conservation of momentum in a barrier oxidation ditch

DATE-ISSUED: February 20, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Reid; John H.	Fredericksburg	VA	22401	

US-CL-CURRENT: 210/628; 210/629, 210/926, 261/91, 261/93

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Full
Draw Desc	Image									

└ 9. Document ID: US 4548712 A

L3: Entry 9 of 16

File: USPT

Oct 22, 1985

US-PAT-NO: 4548712

DOCUMENT-IDENTIFIER: US 4548712 A

TITLE: Conservation of momentum in a barrier oxidation ditch

DATE-ISSUED: October 22, 1985

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Reid; John H.	Fredericksburg	VA	22401	

US-CL-CURRENT: 210/194; 210/197, 210/219, 210/220, 210/926, 261/123, 261/36.1, 261/87

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Full
Draw Desc	Image									

└ 10. Document ID: US 4543185 A

L3: Entry 10 of 16

File: USPT

Sep 24, 1985

US-PAT-NO: 4543185

DOCUMENT-IDENTIFIER: US 4543185 A

TITLE: Conservation of momentum in a barrier oxidation ditch

DATE-ISSUED: September 24, 1985

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Reid; John H.	Fredericksburg	VA	22401	

US-CL-CURRENT: 210/194; 210/219, 210/220, 210/242.2, 210/926, 261/120, 261/91, 415/7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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Term	Documents
SUSPENSION.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	490033
SUSPENSIONS.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	112144
(2 AND SUSPENSION).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	16
(L2 AND "SUSPENSION").USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	16

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L3: Entry 11 of 16

File: USPT

Aug 27, 1985

US-PAT-NO: 4537679

DOCUMENT-IDENTIFIER: US 4537679 A

TITLE: Conservation of momentum in a barrier oxidation ditch

DATE-ISSUED: August 27, 1985

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Reid; John H.	Fredericksburg	VA	22401	

US-CL-CURRENT: [210/194](#); [210/219](#), [210/220](#), [210/926](#), [261/123](#), [261/DIG.75](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

[RIMC](#)**12. Document ID: US 4521307 A**

L3: Entry 12 of 16

File: USPT

Jun 4, 1985

US-PAT-NO: 4521307

DOCUMENT-IDENTIFIER: US 4521307 A

TITLE: Conservation of momentum in a barrier oxidation ditch

DATE-ISSUED: June 4, 1985

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Reid; John H.	Fredericksburg	VA	22401	

US-CL-CURRENT: [210/194](#); [210/219](#), [210/220](#), [210/926](#), [261/93](#), [261/DIG.75](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

[RIMC](#)**13. Document ID: US 4443338 A**

L3: Entry 13 of 16

File: USPT

Apr 17, 1984

US-PAT-NO: 4443338

DOCUMENT-IDENTIFIER: US 4443338 A

TITLE: Conversion of plug flow and complete mix aeration basins to barrier oxidation ditches

DATE-ISSUED: April 17, 1984

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Reid; John H.	Fredericksburg	VA	22401	

US-CL-CURRENT: 210/629; 210/194, 210/220, 210/926, 261/91, 261/93

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

RMMC

└ 14. Document ID: US 4394268 A

L3: Entry 14 of 16

File: USPT

Jul 19, 1983

US-PAT-NO: 4394268

DOCUMENT-IDENTIFIER: US 4394268 A

TITLE: Conversion of plug flow and complete mix aeration basins to barrier oxidation ditches

DATE-ISSUED: July 19, 1983

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Reid; John H.	Fredericksburg	VA	22401	

US-CL-CURRENT: 210/628; 210/194, 210/220, 210/629, 210/926, 261/91, 261/93

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

RMMC

└ 15. Document ID: US 4278547 A

L3: Entry 15 of 16

File: USPT

Jul 14, 1981

US-PAT-NO: 4278547

DOCUMENT-IDENTIFIER: US 4278547 A

TITLE: Conservation of momentum in a barrier oxidation ditch

DATE-ISSUED: July 14, 1981

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Reid; John H.	Fredericksburg	VA	22401	

US-CL-CURRENT: 210/629; 210/614, 210/739, 210/926

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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R000C

☐ 16. Document ID: US 3853712 A

L3: Entry 16 of 16

File: USPT

Dec 10, 1974

US-PAT-NO: 3853712

DOCUMENT-IDENTIFIER: US 3853712 A

TITLE: CELL CULTURE SYSTEMS

DATE-ISSUED: December 10, 1974

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
House; William Cullingford	Southborough			EN
Maroudas; Nicholas George	London			EN

US-CL-CURRENT: 435/293.2; 435/297.1, 435/299.1, 435/304.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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Term	Documents
SUSPENSION.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	490033
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(L2 AND "SUSPENSION").USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	16

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